

Public Workshop

2013 Guidelines and Proposal Solicitation Package

On-Farm Drainage Management and Harvesting of Salts

Drainage Reuse Grant Program



June 11, 2013 – Modesto

June 13, 2013 – Fresno

Implemented jointly by:
Department of Water Resources
Department of Food and Agriculture



Purpose of Workshop

- Describe components of Draft Guidelines and Proposal Solicitation Package
- Solicit public input and feedback on the draft Guidelines/PSP
- Invite written comments
 - Comments due Thurs. June 27, 2013

Agenda

- Guidelines
 - Background
 - Objectives of Drainage Reuse Grant Program
 - Eligible Projects and Applicants
 - Grant Amounts
 - Program Requirements
 - Technical Review
- Proposal Solicitation Package
 - Application and Submittal Process
 - Scoring Criteria
- Comments and Questions

Guidelines

Background - History

1986

**Water Conservation
and Water Quality
Bond Law**

- Funds originally established through the Agricultural Drainage Water Account



1996

**Proposition 204 – Safe,
Clean, Reliable Water
Supply Act**

- Authorized transfer of unallocated funds to California Department of Food and Agriculture (CDFA)
- \$6,177,742 was originally transferred



**California Department
of Food and
Agriculture**


- Responsible for implementing programs to use and improve drainage water, and utilize salts



**Department of Water
Resources**

- MOU between CDFA, DWR, and SWRCB transferred funds and established DWR as responsible agency for implementing grant programs
- \$1.6 million existing in account

Background

- Over 40 projects have been funded by Prop 204
 - Investigations have included:
 - ✓ Drainage reuse
 - ✓ Source reduction
 - Drainage treatment
 - Salt separation & utilization
- 

Background

The screenshot shows a web browser window with the URL <http://www.water.ca.gov/drainage/index.cfm>. The browser's address bar and tabs are visible at the top. The website header features the California Department of Water Resources logo and a navigation menu with links such as Home, Newsroom, Flood & Safety, Planning, State Water Project, Funding, Environment, Supply & Use, and Data. Below the header, the page title is "San Joaquin Valley Agricultural Drainage". A green callout box with a white border and a green arrow pointing to the URL www.water.ca.gov/drainage is overlaid on the right side of the page. The main content area is titled "DWR » Agricultural Drainage" and includes a sub-header "INFORMATION ABOUT". Below this, there are four tabs: Drainage, Data & Maps, IFDM, Prop 204, and Treatment Projects. The "Drainage" tab is selected, and the content under it is titled "Monitoring & History". The text describes the San Joaquin Valley's agricultural lands and the challenges posed by poor subsurface drainage conditions. Below the main text, there are four sections, each with a small image and a title: "Drainage" (with an image of a river), "Integrated Drainage Management" (with an image of a field), "Desalination" (with an image of a desalination plant), and "Proposition 204" (with an image of a landscape). Each section provides a brief description of the program or project. On the left side of the page, there is a sidebar with a list of links under the heading "AGRICULTURAL DRAINAGE" and "DWR RELATED LINKS".

More information on past projects on website:
www.water.ca.gov/drainage

AGRICULTURAL DRAINAGE

- Home
- Tile Drainage Data
- Shallow Groundwater & Electrical Conductivity
- Integrated On-Farm Drainage Management (IFDM)
- Downloads & Exhibits
- Proposition 204
 - Proposal Solicitation
 - Drainage Reuse
 - Drainage Treatment
 - Salt Separation & Utilization
 - Source Reduction
- Treatment Projects
- Useful Information
- Related Links
- Publications

DWR RELATED LINKS

- Desalination
- Water Quality

INFORMATION ABOUT

Drainage | Data & Maps | IFDM | Prop 204 | Treatment Projects

Monitoring & History

The San Joaquin Valley has some of the most productive agricultural lands in the world. However, much of the west side of the Valley is plagued by poor subsurface drainage conditions that impact crop productivity. Effective subsurface drainage management is essential to prevent excessive shallow groundwater conditions and the accumulation of salts in the root zones. Monitoring of shallow groundwater and agricultural drainage water is an integral activity to determining the effectiveness of management practices.

Drainage
The Agricultural Drainage Program collects, evaluates, reports information and conducts studies and demonstration projects focusing on drainage problems in the San Joaquin Valley. The resulting data and information on agricultural drainage issues enable better definition of drainage problems and lead to implementation of management plans.

Integrated Drainage Management
Integrated On-Farm Drainage Management (IFDM) is a state-of-the-art management system that provides for drainage water reuse to improve water availability for crop production and to minimize salt and selenium risks to water quality and the environment.

Desalination
Provide technical assistance concerning desalination and advanced treatment of brackish agricultural wastewaters - including process selection, economic factors, operations and maintenance, environmental requirements, and pilot treatment

Proposition 204
Under The [Safe, Clean, Reliable Water Supply Act](#), the Department seeks to develop methods of using and concentrating salts, and reducing contaminants in the State's subsurface agricultural drainage water by soliciting proposals

Objectives of the Drainage Reuse Grant Program

- There are 3 primary objectives of the program
 1. Demonstrate the feasibility, acceptability, and cost effectiveness of drainage reuse, reduction of toxic constituents, and salt concentration methods.
 2. Identify areas where improved irrigation and drainage management technologies are cost effective alternatives for controlling agricultural drainage problems.
 3. Identify, investigate, and implement new technologies that facilitate the implementation of drainage source reduction through use of drainage water and/or its constituents.

Eligible Projects - Examples

Source Reduction

- Irrigation management
- Using/improving plants as biological interceptors
- Regulating drain flows

Drainage Reuse

- Identifying suitable plants/trees for reuse
- Reusing drainage water on salt-tolerant and halophytic plants
- Developing other opportunities for reuse

Drainage Treatment

- Removing selenium and toxic elements using accumulating/volatilizing salt-tolerant plants and trees

Salt Separation & Utilization

- Developing markets for harvested salts from drainage water
- Developing markets for salt-tolerant, halophytic, and trace element accumulating plant products

Eligible Projects - Preferences

- Preference will be given to projects that:
 - Develop methods to concentrate and harvest salts and toxic elements from drainage water,
 - Develop desalination technologies for reclamation of subsurface agricultural drainage water and brackish groundwater,
 - Utilize concentrate from desalination processes for recycling of salts (i.e., gypsum, sodium sulfate, magnesium and calcium chlorides, etc.)

Eligible Applicants

- Public Agencies

- Cities
- Counties
- Districts
- Joint Powers Authorities
- Universities
- Other political subdivisions of the State

Program Requirements

- General

- DWR will consider only applications received as a part of this solicitation for this funding cycle

- Conflict of Interest

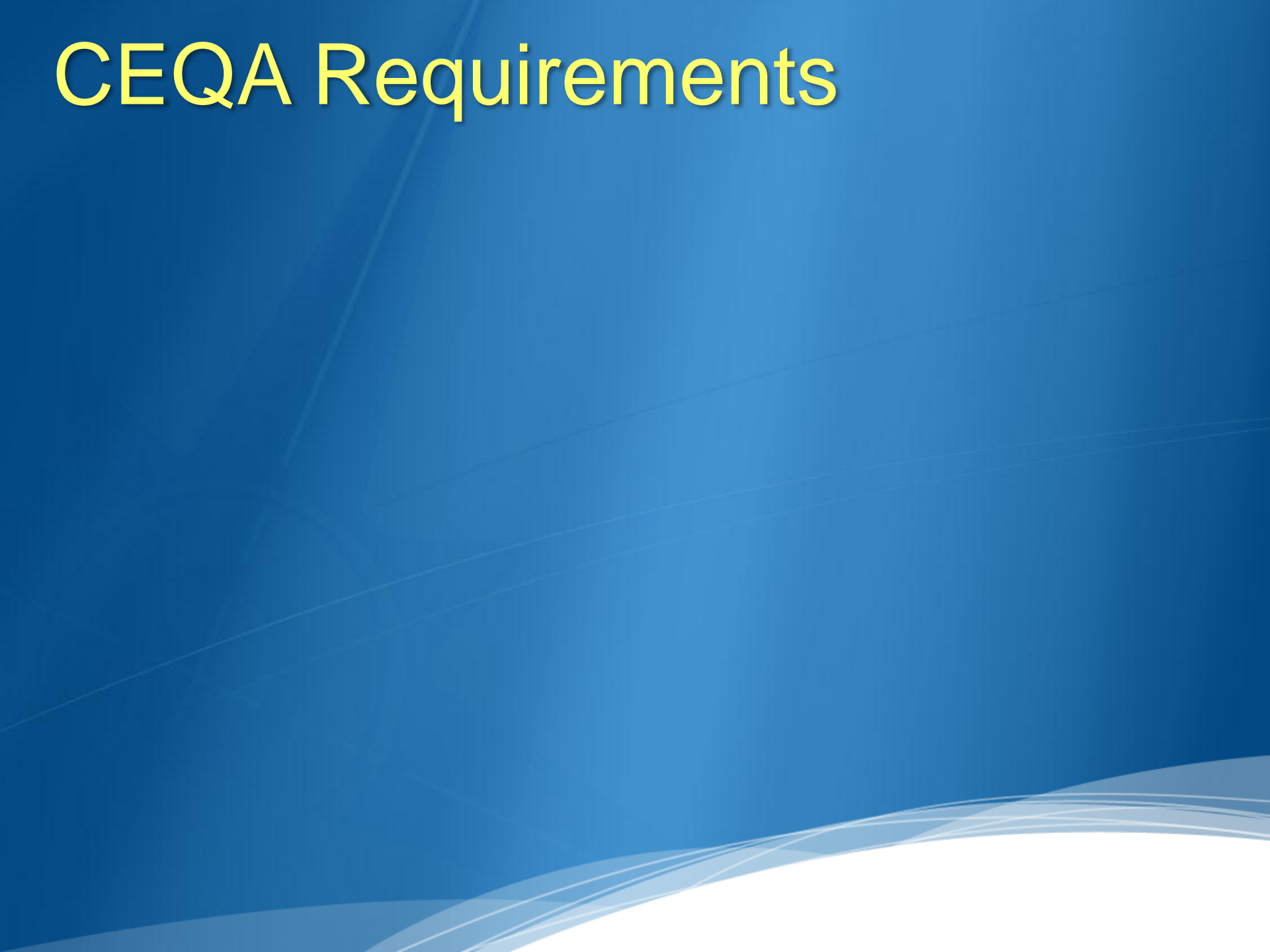
- Participants are subject to State and Federal conflict of interest laws
 - Failure to comply will result in voided contracts

Program Requirements

- Labor Code Compliance

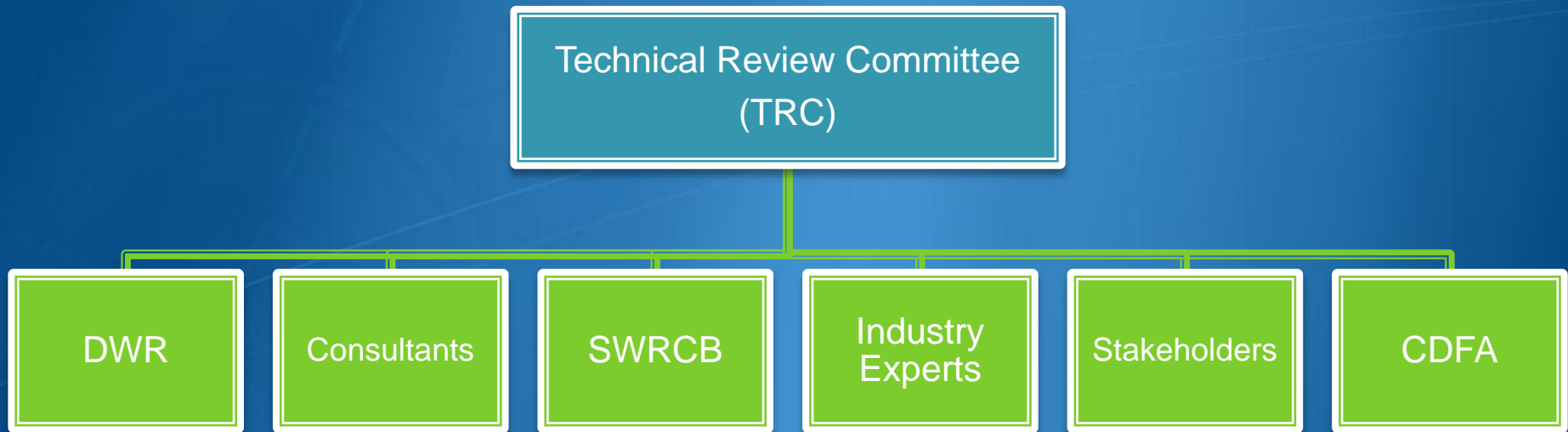
- Grantee must comply with CA Labor code (CLC) requirements, including, but not limited to, Section 1720 et seq. of the CLC regarding public works, limitations on use of volunteer labor (California Labor Code Section 1720.4), labor compliance programs (CLC Section 1771.5) and payment of prevailing wages for work done and funded pursuant to these guidelines.

CEQA Requirements

The background of the slide is a solid blue color with a subtle gradient. At the bottom, there are several white, wavy, curved lines that sweep across the width of the slide, creating a sense of motion or a horizon line.

Technical Review Process

- Technical Review Committee (TRC)
 - Comprised of representatives from the staff of the San Joaquin Valley Drainage Implementation Program agencies and others



Technical Review Process

- Technical Review Committee (TRC)
- Individual, Consensus, and Management Reviews



Technical Review/Evaluation

- All applications will undergo eligibility and completeness review for the required items listed in the PSP
- Only complete applications will be reviewed or considered for funding

Proposal Solicitation Package (PSP)

Grant Amounts

- FY 2013-2014 Total Budget: \$750,000
- Maximum amount per eligible grant recipient for a specified project: \$200,000 per project
- Project time limit is two (2) years

Cost Share

- Is a cost share required?
 - No cost share is required for this round of Prop 204 funding
 - If an awarded project costs more than the grant amount, grantees are required to show cost share documentation
 - Cost sharing can be used as tie-breaker if necessary

How to Apply for a Grant

- After public comments have been incorporated and Final Guidelines/PSP has been issued...
- Complete proposals due no later than:

5:00 PM on September 13, 2013*

- Applications may be found online as an appendix to the Guidelines/PSP

<http://www.water.ca.gov/drainage/prop204/proposls.cfm>

Req'd Application Components

- A completed application includes:
 - Part A – Organization, Financial, and Legal Information
 - A-1 Application Cover Sheet
 - A-2 Applicant's Representatives
 - A-3 Cost Estimate/Cost Share
 - A-4 Authorizing Resolution
 - Part B – Project Proposal and Task Breakdown

Application Attachments - Part B

- Proposal and Task Breakdown
 - Contains bulk of project information
 - Opportunity to justify work plan and objectives
 - Each component is important to creating a cohesive and defensible project

Part B – Project Proposal and Task Breakdown

Please provide (as Attachment B) a project proposal with a detailed task breakdown, which describes the tasks that will be undertaken to implement the project. The project proposal shall include the following:

1. Title
2. Principal Investigator/Cooperator(s)
 - Please name all cooperators, including consultants.
3. Description of the Problem
4. Quantifiable Project Objectives
5. Project-Specific Tasks
 - The task breakdown shall include, at a minimum, the following elements:
 - A description of the tasks required to complete the project. In the description of each task, include the identification and cost of each item of work (from the cost estimate) that is included in the task.
 - Preparation of quarterly progress reports.
 - A time schedule for implementing the project, including the proposed calendar dates. At a minimum, the schedule should include the following benchmarks:
 - Each quarterly progress report.
 - Completion of each task of the task breakdown.
 - Review of implementation by DWR.
 - Completion of post-implementation report.
 - A time schedule of expenditures.
 - Signature of the agency head or designated representative, certifying that the agency approves the task breakdown, or a resolution or minute order delegating responsibility for task breakdown approval to the signer.
6. Materials and Methods
7. Schedule
8. Costs
 - Budget sheet, including indirect costs and cost sharing (if applicable).
9. Deliverable Products

How to Submit an Application

- Applicants must submit:
 - ONE complete application marked “ORIGINAL”
 - FOUR copies of the application
 - ONE electronic copy (.doc[x] or .pdf) on CD
- Submit all information by mail to:

California Department of Water Resources
South Central Region Office
3374 E. Shields Avenue
Fresno, CA 93726
Attn: Maggie Dutton














Tentative Schedule

| | | 2013 | | | | | |
|---|-------------------|------|-----|-----|-----|------|-----|
| Tasks / Action Items | Date | May | Jun | Jul | Aug | Sept | Oct |
| I. Preparation of Draft PSP and Guidelines | | | | | | | |
| a. Post Draft PSP on DWR Website (at least 30-day review) | 5/10/13 - 6/26/13 | | | | | | |
| b. Hold Public Workshops ⁽¹⁾ | 6/11/13 & 6/13/13 | | | | | | |
| c. Public Comment Period on Draft PSP/Guidelines | 6/11/13 - 6/26/13 | | | | | | |
| d. Public Comments on Draft PSP/Guidelines Due | 6/27/2012 | | | | | | |
| e. Review and Respond to Public Comments on Draft PSP | 6/27/13 - 7/12/13 | | | | | | |
| II. Issue Final PSP and Guidelines | | | | | | | |
| a. Release Final PSP to Public | 7/15/13 | | | | | | |
| b. Public to Prepare Grant Applications | 7/15/13 - 9/13/13 | | | | | | |
| c. Select Technical Review Committee | August 2013 | | | | | | |
| III. Submit Grant Applications | | | | | | | |
| a. Applications Due | 9/13/13 | | | | | | |







Legend

- DWR Action Required
- Public Action Required
- DWR & Public Action Required
- Due Date

Tentative Schedule

| Tasks / Action Items | Date | 2013 | | | | 2014 | |
|--|---------------------|---|---|---|---|---|-----|
| | | Sept | Oct | Nov | Dec | Jan | Feb |
| IV. Technical Review of Submitted Applications | | | | | | | |
| a. Technical Review Committee Kick-Off Meeting | 9/17/13 |  | | | | | |
| b. Mail Applications to Technical Review Committee | 9/18/13 - 9/23/13 |  | | | | | |
| c. Review Applications | 9/24/13 - 10/25/13 |  | | | | | |
| d. Consensus Review of Recommendations | 10/28/13 - 11/8/13 | |  | | | | |
| e. Complete Recommendations on Project Rankings | 11/14/13 | | |  | | | |
| V. Release Draft Funding Recommendations | | | | | | | |
| a. Request Approval to Release Draft Funding Recommendations | 11/15/13 | | |  | | | |
| b. Post Draft Funding Recommendations on DWR Website | 11/20/13 | | |  | | | |
| c. Public Comment Period on Draft Funding Recommendations | 11/20/13 - 12/4/13 | | |  | | | |
| d. Review and Respond to Public Comments | 12/5/13 - 12/13/13 | | | |  | | |
| VI. Release Final Funding Recommendations | | | | | | | |
| a. Finalize Funding Recommendations | 12/16/13 - 12/19/13 | | | |  | | |
| b. Post Final Funding Recommendations on Website | 12/20/13 | | | |  | | |
| c. Send Letters of Commitment to Grantees | 12/20/13 | | | |  | | |
| VII. Issue Contract Documents | | | | | | | |
| a. Begin Funding Contract Process | 1/6/14 | | | | |  | |

Legend

-   DWR Action Required
-   Public Action Required
-  DWR & Public Action Required
-  Due Date

Scoring Criteria

- ✓ Eligible project, program requirements complete (CEQA, etc.)
- Evaluation based on scoring criteria

| Scoring Criteria | |
|---------------------------------------|---|
| Part A | |
| A-1 Application Cover Sheet | Pass/Fail |
| A-2 Applicant's Representatives | Pass/Fail |
| A-3 Cost Estimate/Cost Share | Pass/Fail |
| A-4 Authorizing Resolution | Pass/Fail |
| Total Possible Maximum – Criteria A | Pass |
| Part B | |
| B Project Proposal and Task Breakdown | (1) 5 points, (2) 15 points, (3) 5 points |
| Total Possible Maximum – Criteria B | 25 Points, Fund (High Priority) |

Scoring Criteria

Reviewer: _____

**Prop 204 Drainage Reuse Grant Program for
On-Farm Drainage Management and Harvesting of Salts
FY 2013-14 Proposal Review Form**

Proposal:

Title: _____

PI(s): _____

Campus: _____

Criteria for Evaluation:

1. Relevance to the Drainage Reuse Program and Salt Separation/Recycling/Recovery
Does the project address the stated program priority? Which of the following is addressed by the proposed project: (a) develop sustainable and environmentally acceptable methods to concentrate and harvest salts and potentially toxic elements from drainage water; (b) develop viable desalination technologies for subsurface agricultural drainage water and brackish groundwater underlying drainage-impaired lands; or (c) use concentrate from desalination processes for recycling of valuable salts, such as gypsum, sodium sulfate, magnesium and calcium chlorides, etc.? Is the research integrated and necessary to address the problem or issue?
(Weighting Factor: 1, Range of Points Possible: 0-5, Score: 0-5)
2. Scientific Merits (hypothesis, methods, and anticipated outcomes)
Are the project objectives and outcomes clearly described, adequate, and appropriate? Are the proposed approach, procedures, or methodologies innovative, original, clearly described, suitable, and feasible? Are the expected results or outcomes clearly stated, measurable, and achievable within the allotted time frame? Does the proposed research fill knowledge gaps that are critical to the development of practices and programs to address the stated problem or issue?
(Weighting Factor: 3, Range of Points Possible: 0-5, Score: 0-15)

Reviewer: _____

(Continued Criteria 2 Discussion...)

3. Other Comments (qualification of the investigators, budget, equipment, schedule, etc.)
Are the roles of key personnel clearly defined? Do key personnel have sufficient expertise to complete the proposed project, and, where appropriate, are there established partnerships with other institutions? Has evidence of institutional capacity and competence in the proposed area of work been provided? Will sufficient personnel, facilities, and instrumentation be provided? Is a clear plan for project management articulated, which includes: (1) adequate time allocation for attainment of objectives and delivery of products, (2) maintenance of partnerships and collaborations, and (3) a strategy to enhance communication, data sharing, and reporting among members of the project team?
(Weighting Factor: 1, Range of Points Possible: 0-5, Score: 0-5)
4. Cost sharing (Is there a cost-share component to the project?)
(Bonus/tiebreaker point = 1. This point will be significant only if the project score is near the cutoff for funding.)

Funding Recommendations:

Fund? _____ Priority? _____
☐ YES ☐ NO ☐ LOW ☐ MEDIUM ☐ HIGH ☐ NONE

Questions or Comments?



Dates to remember...

Public Comments due **June 27, 2013**

Final Guidelines/PSP issued **mid July 2013**

Applications due **Sept. 13, 2013***

Draft funding recommendations issued **late Nov 2013**

Letters of Commitment sent **late Dec 2013**

For more information, contact:

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